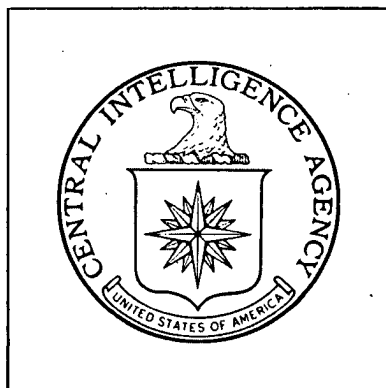


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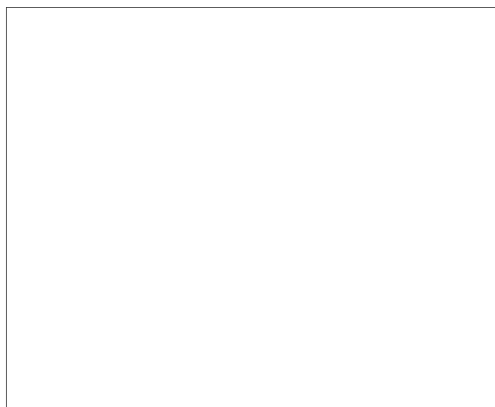
**DIRECTORATE OF
INTELLIGENCE**

**Industrial Facilities
(Non-Military)**

Basic Imagery Interpretation Report

Chi-nan Chemical Fertilizer Plant

Chi-nan, China



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RCS 13/0068/69

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DATE DECEMBER 1968

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IMAGERY ANALYSIS SERVICE

RCS - 13/0068/69

INSTALLATION OR ACTIVITY NAME			COUNTRY	
Chi-nan Chemical Fertilizer Plant			CH	
UTM COORDINATES	GEOGRAPHIC COORDINATES		COMIREX NO.	WAC-PIC N25X1
50SNRI 39638	36-40-00N 116-59-00E*		None	0381-69L
MAP REFERENCE				
15th RTS. USATC Series 200, Sheet M0381-21HL, 3rd ed., Jan 65, Scale 1:200,000 (SECRET)				
LATEST IMAGERY USED		NEGATION DATE (If required)		
		Not Required		

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ABSTRACT

Construction of the Chi-nan Chemical Fertilizer Plant reportedly began in 1958. In the early 1960's construction was abandoned when the Soviet Union withdrew economic aid. Construction was resumed in 1965 and the plant was completed and began operating in late 1967 or early 1968. The main products of the plant are possibly ammonium bicarbonate and ammonium hydroxide.

*NOTE: Correct coordinates for this plant are 36-43-00N 117-09-00E.

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INTRODUCTION

The Chi-nan Chemical Fertilizer Plant is located in Shantung Province, 8.5 nautical miles (nm) east-northeast of Chi-nan (Figure 1). Construction of this plant was reportedly begun in 1958.1/ The plant is located in an industrial area on the flood plain of the Yellow River.

The Chi-nan Thermal Power Plant Huang-tai [] which probably furnishes electric power to the fertilizer plant, is located 3 nm southwest of the plant.

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A good, probable all-weather road and a rail spur from the main rail line between Chi-nan and Tsingtao serve the fertilizer plant. Mission [] was used for the graphical presentation in this report; later missions were of poor quality.

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TOP SECRET RUFF**IMAGERY ANALYSIS SERVICE****BASIC DESCRIPTION**

The main production facilities of the plant occupy an area roughly rectangular in shape and measuring about 2,500 by 1,400 feet.

No security measures were observed on good-quality photography of December 1966 when the plant was in mid-stages of construction. Due to the poor quality and small scale of subsequent imagery, it is not possible to determine if the plant has been secured.

Based on the basic chemicals and intermediate products available at this plant (see Figure 3), its main products are possibly ammonium bicarbonate and ammonium hydroxide. Either of these fertilizers could be produced and processed in the possible reactor building (Item 12) and the possible evaporation building (Item 13). The plant has coal handling facilities, gas retorts, and gas purification and ammonia synthesis facilities which are typical of those seen at plants producing ammonium nitrate and ammonium sulfate. However, there are no facilities to produce nitric acid or sulfuric acid which would be necessary in the production of ammonium nitrate and ammonium sulfate, respectively.

The major production components are depicted and annotated on Figure 3. Following is a brief construction chronology:

- March 1965 - Plant in early stages of construction. Construction abandoned.
- March 1966 - No change.
- November 1966 - Construction resumed. Gas production and ammonia production areas were in mid-stages of construction.
- January 1967 - Plant nearing completion, does not appear operational.
- September 1967 - Construction complete, operational status cannot be determined.
- January 1968 - Plant observed in operation.

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FIGURE 2. CHEMICAL FERTILIZER PLANT, CHI-NAN, CHINA,

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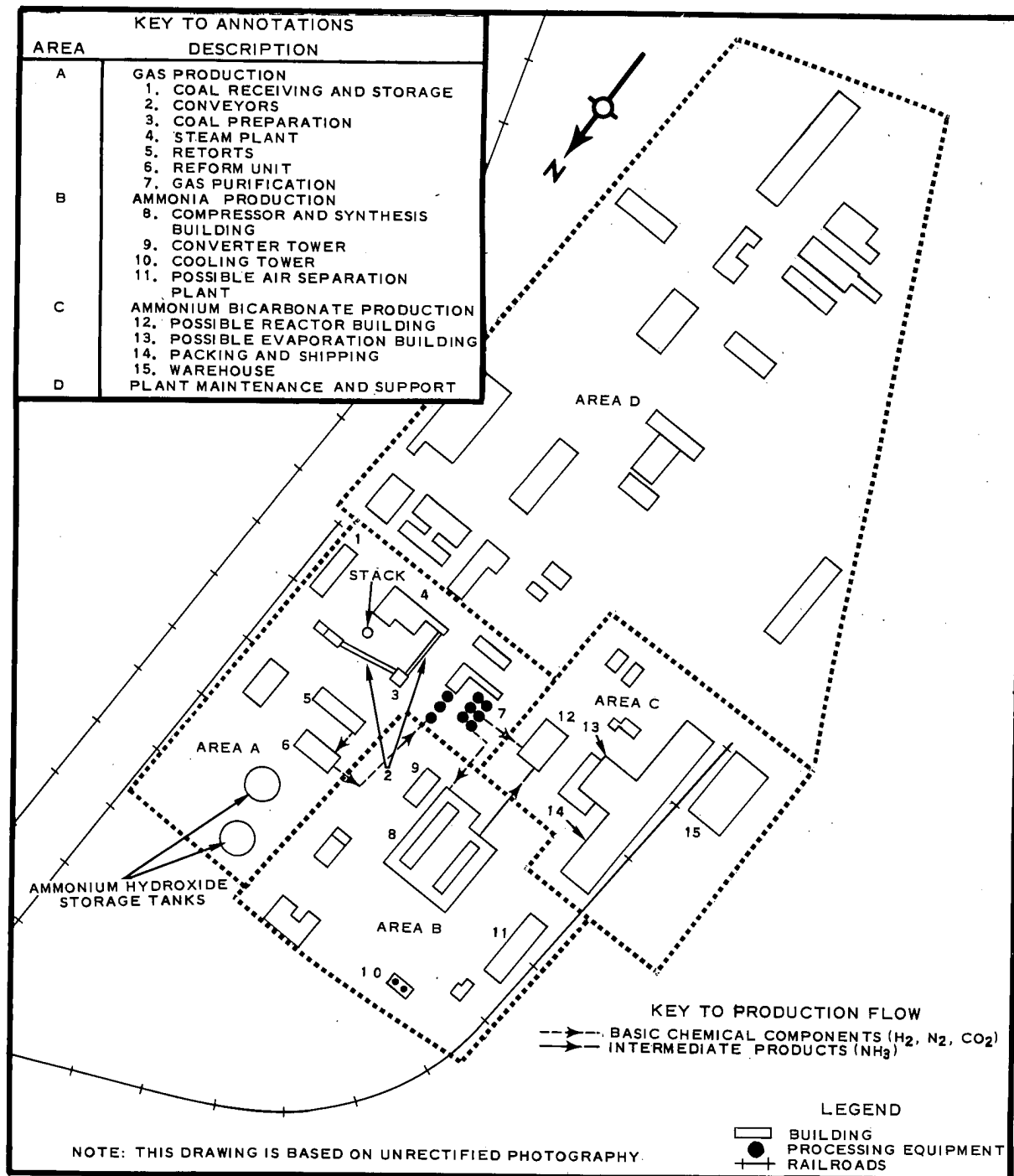


FIGURE 3. CHEMICAL FERTILIZER PLANT, CHI-NAN, CHINA

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REFERENCES

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Maps

15th RTS. US Air Target Chart 200, Sheet M0381-2IHL, 3rd edition,
Jan 1965, Scale 1:200,000 (SECRET

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Documents

1. Intelligence Information Report, (U) Construction
of Chemical Fertilizer Plants in Shantung Province, Apr 1968,
(CONFIDENTIAL)

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Requirement

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